

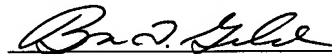


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No: 10/631,289 Confirmation No. Unknown
Date Filed: July 31, 2003
Application Title: Methods For Multiplex PNA FISH
Applicants: Hyldig-Nielsen et al.
Group Art Unit: Not Assigned
Examiner: Not Assigned
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Brian D. Gildea
Reg. No. 39,995

Information Disclosure Statement

Commissioner For Patents
Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.97, Applicant(s) hereby make of record the following information and publications. Copies of PTO Form 1449 and each publication listed thereon [INCLUDE REFERENCE CODE, E.G., (U.S. PATENTS: AA through AZ); (BA - BZ FOREIGN PATENTS) &/OR (CA - CZ JOURNAL ARTICLES ETC.)] accompany this statement, either in the entirety or in the relevant parts.

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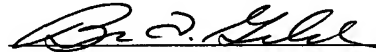
Applied Biosystems
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023544

Respectfully submitted,

Date: Oct 28, 2003


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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

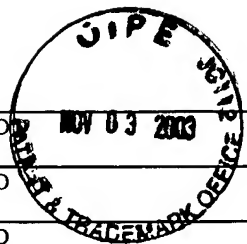


ATTY. DOCKET NO.: BP9804US-CN1
 APPLICANT: Jens J. Hyldig-Nielsen, et al
 SERIAL NO.: 10/631,289
 FILING DATE: July 31, 2003
 GROUP: Not Assigned

US PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	4,816,389	Mar. 28, 1989	Sansonetti et al.	435		Jul. 12, 1985
	AB	4,992,364	Feb. 12, 1991	Sansonetti et al.	435		Jan. 11, 1989
	AC	5,041,372	Aug. 20, 1991	Lampel et al.	435		Nov. 2, 1988
	AD	5,147,778	Sep. 15, 1992	Nietupski et al.	435		Nov. 29, 1988
	AE	5,486,454	Jan. 23, 1996	Madonna et al.	435		May 17, 1994
	AF	5,495,008	Feb. 27, 1996	Lane et al.	536		Apr. 17, 1992
	AG	5,574,145	Nov. 12, 1996	Barry et al.	536		Dec. 22, 1993
	AH	5,582,974	Dec. 10, 1996	Nietupski et al.	435		Dec. 22, 1993
	AI	5,612,458	Mar. 18, 1997	Hyldig-Nielsen et al.	530		Dec. 22, 1994
	AJ	5,648,481	Jul. 15, 1997	Parodos et al.	536		Jan. 19, 1995
	AK	5,654,417	Aug. 5, 1997	Tarr et al.	536		Apr. 14, 1995
	AL	5,677,127	Oct. 14, 1997	Hogan et al.	435		May 30, 1995
	AM	5,693,469	Dec. 2, 1997	Hogan	435		May 30, 1995
	AN	5,714,321	Feb. 3, 1998	Hogan	435		May 30, 1995
	AO	5,723,344	Mar. 3, 1998	Mabilat et al.	436		Jun. 24, 1994
	AP	5,888,733	Mar. 30, 1999	Hyldig-Nielsen et al.	435		Oct. 2, 1996
	AQ	5,888,734	Mar. 30, 1999	Cremer et al.	435		May 19, 1993
	AR	5,985,563	Nov. 16, 1999	Hyldig-Nielsen et al.	435		June 5, 1997
FOREIGN PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	BA	EP0133288A2	Jul. 25, 1984	EPO			
	BB	EP0395292A2	Apr. 18, 1990	EPO			
	BC	EP0497464A1	Jan. 15, 1992	EPO			
	BD	EP0531798B1	Jan. 9, 1984	EPO			
	BE	EP0632269A1	Jun. 24, 1994	EPO			
	BF	WO89/11548	Nov. 30, 1989	WIPO			
	BG	WO90/01560	Feb. 22, 1990	WIPO			
	BH	WO90/01564	Feb. 22, 1990	WIPO			
	BI	WO92/15708	Sep. 17, 1992	WIPO			
	BJ	WO94/19490	Sep. 1, 1994	WIPO			
	BK	WO95/32305	Nov. 30, 1995	WIPO			
	BL	WO96/17956	Jun. 13, 1996	WIPO			
	BM	WO97/14026	Apr. 17, 1997	WIPO			

EXAMINER: _____ DATE CONSIDERED: _____

	BN	WO97/18325	May 22, 1997	WIPO			
	BO	WO98/03678	Jan. 29, 1998	WIPO			
	BP	WO98/15648	Apr. 16, 1998	WIPO			



OTHER PUBLICATIONS	
CA	Amann, R.I. et al, Fluorescent-oligonucleotide probing of whole cells for determinative, phylogenetic, and environmental studies in microbiology. J. Bacteriology 172, 762-770 (1990)
CB	Amann, R.I. et al, Combination of 16S rRNA-targeted oligonucleotide probes with flow cytometry for analyzing mixed microbial populations. Appl. and Environ. Microbiol. 56, 1919-1925 (1990)
CC	Amann, R. et al, Identification <i>in situ</i> and phylogeny of uncultured bacterial endosymbionts. Nature 351, 161-164 (1991)
CD	Amann, R. I. et al, Phylogenetic identification and <i>in situ</i> detection of individual microbial cells without cultivation. Microbio. Reviews 59, 143-169 (1995)
CE	Bauman, J.G.J. et al, Flow cytometric detection of ribosomal RNA in suspended cells by fluorescent <i>in situ</i> hybridization. Cytometry 9, 517-524 (1988)
CF	DeLong, E.F. et al, Phylogenetic stains: ribosomal RNA-based probes for the identification of single cells. Science 243, 1360-1363 (1989)
CG	DeLong, E.F. et al, Fluorescent, ribosomal RNA probes for clinical application: a research review. Diagnos. & Clin. Testing 28, 41-44 (1990)
CH	Fuchs, B.M. et al, Flow cytometric analysis of the <i>in situ</i> accessibility of <i>escherichia coli</i> 16S rRNA for fluorescently labeled oligonucleotide probes. Appl. and Environ. Microbiol. 64, 4973-4982 (1998)
CI	Giovannoni, S.J. et al, Phylogenetic group-specific oligodeoxynucleotide probes for identification of single microbial cells. J. Bacteriology 170, 720-726 (1988)
CJ	Hahn, D. et al, Oligonucleotide probes that hybridize with rRNA as a tool to study <i>Frankia</i> strains in root nodules. Applied and Environ. Microbiol. 56, 1342-1346 (1990)
CK	Hahn, D. et al, Extraction of ribosomal RNA from soil for detection of <i>Frankia</i> with oligonucleotide probes. Arch. Microbiol. 154, 329-335 (1990)
CL	Hahn, D. et al, Detection of micro-organisms in soil after <i>in situ</i> hybridization with rRNA-targeted, fluorescently labelled oligonucleotides. J. Gen. Microbiol. 138, 879-887 (1992)
CM	Heidelberg, J.F. et al, Enumeration of <i>Vibrio vulnificus</i> on membrane filters with a fluorescently labeled oligonucleotide probe specific for kingdom-level 16S rRNA sequences. Appl. and Environ. Microbiol. 59, 3474-3476 (1993)
CN	Heiles, H.B.J. et al, <i>In situ</i> hybridization with digoxigenin-labeled DNA of human papillomaviruses (HPV 16/18) in HeLa and SiHa cells. BioTechniques 6, 978-981 (1988)
CO	Herron, P.R. et al, New method for extraction of streptomycete spores from soil and application to the study of lysogeny in sterile amended and nonsterile soil. Appl. and Environ. Microbiol. 56, 1406-1412 (1990)
CP	Holben, W.E. et al, DNA probe method for the detection of specific microorganisms in the soil bacterial community. Appl. and Environ. Microbiol. 54, 703-711 (1988)
CQ	Just, T. et al, Flow cytometric detection of EBV (EBER snRNA) using peptide nucleic acid probes. J. Virol. Methods 73, 163-174 (1998)
CR	Lansdorp, P.M., Close encounters of the PNA kind. Nature Biotech. 14, 1653 (1996)
CS	Lansdorp, P.M. et al, Telomeres in the haemopoietic system. Telomeres and Telomerase (eds. DJ Chadwick & G. Cardew), John Wiley & Sons Ltd., West Sussex, UK, pp 209-222 (1997)
CT	Lansdorp, P.M. et al, Heterogeneity in telomere length of human chromosomes. Human Mol. Gen. 5, 685-691 (1996)
CU	Seal, S.E. et al, Differentiation of <i>Pseudomonas solanacearum</i> , <i>Pseudomonas syzygii</i> , <i>Pseudomonas picketti</i> and the blood disease bacterium by partial 16S rRNA sequencing: construction of oligonucleotide primers for sensitive detection by polymerase chain reaction. J. Gen. Microbiol. 139, 1587-1594 (1993)
CV	Taneja, K.L., Localization of trinucleotide repeat sequences in myotonic dystrophy cells using a single fluorochrome-labeled PNA probe. BioTechniques 24, 472-76 (1998)
CW	Thisted, M. et al, Detection of immunoglobulin kappa light chain mRNA in paraffin sections by <i>in situ</i> hybridization using peptide nucleic acid probes. Cell Vision 3, 358-363 (1996)
CX	Thisted, M. et al, Application of peptide nucleic acid probes for <i>in situ</i> hybridization. PNA Applications and Protocols , Horizon Scientific Press, in press.
CY	Ward, D.M. et al, 16S rRNA sequences reveal numerous uncultured microorganisms in a natural community. Nature 345, 63-65 (1990)

EXAMINER: _____ DATE CONSIDERED: _____

	CZ	Weisburg, W.G. et al, 16S Ribosomal DNA amplification for phylogenetic study. J. Bacteriol. 173, 697-703 (1991)
	DA	Zarda, B. et al, Identification of single bacterial cells using digoxigenin-labelled, rRNA-targeted oligonucleotides. J. Gen. Microbiol. 137, 2823-2830 (1991)
	DB	Stefano, K. et al, Diagnostic Applications of PNA Oligomers. Diagnostic Gene Detection and Quantification Technologies for Infectious Agents and Human Genetics Diseases. 948 IBC Library Series, 19-37 (1997)
	DC	Pluskal, M. et al, Peptide Nucleic Acid Probes and their Application in DNA and RNA Blot Hybridization Analysis. American Society for Biochemistry and Molecular Biology. Abstract # 35. 85 th Annual meeting, Washington, DC May 21-25, 1994

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